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SHIBATA HIDEJI(54) DETECTION OF TARGET NUCLEIC ACID
SEQUENCE AND REAGENT KIT THEREFOR

(57) Abstract:

PURPOSE: To detect the target nucleic acid while suppressing non-specific reaction by preparing a probe cyclizing in the presence of the target nucleic acid, hybridizing the probe to the target nucleic acid in a specimen, using the cyclized material as a template and determining the amount of the single-stranded nucleic acid having a primer sequence complementary to the template.

CONSTITUTION: A straight-chain probe nucleotide B having a sequence designed to cause the cyclization as a result of the presence of the target nucleic acid sequence A in a specimen is hybridized to the target nucleic acid sequence A by using a primer nucleotide C having a sequence at least partly complementary to the straight-chain probe nucleotide B. The straight-chain probe nucleotide B is cyclized by this process. The produced cyclic probe nucleotide B' is used as a template and a single-stranded nucleic acid having a sequence consisting of repetition of sequences com-

plementary to the template is produced by utilizing the primer nucleotide C. The target nucleic acid sequence A in the specimen can be detected by the produced single-stranded nucleic acid.

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